

FIG. 2B

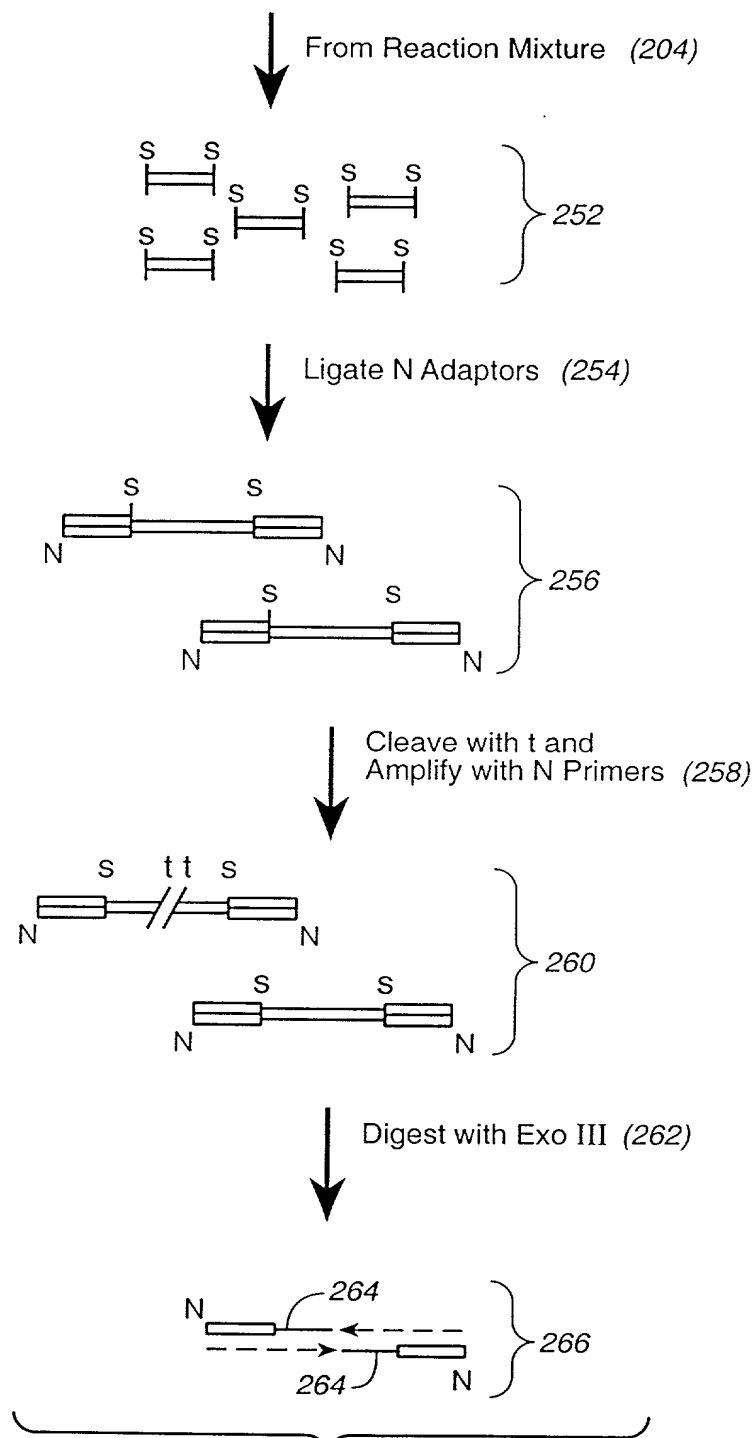


FIG. 2C

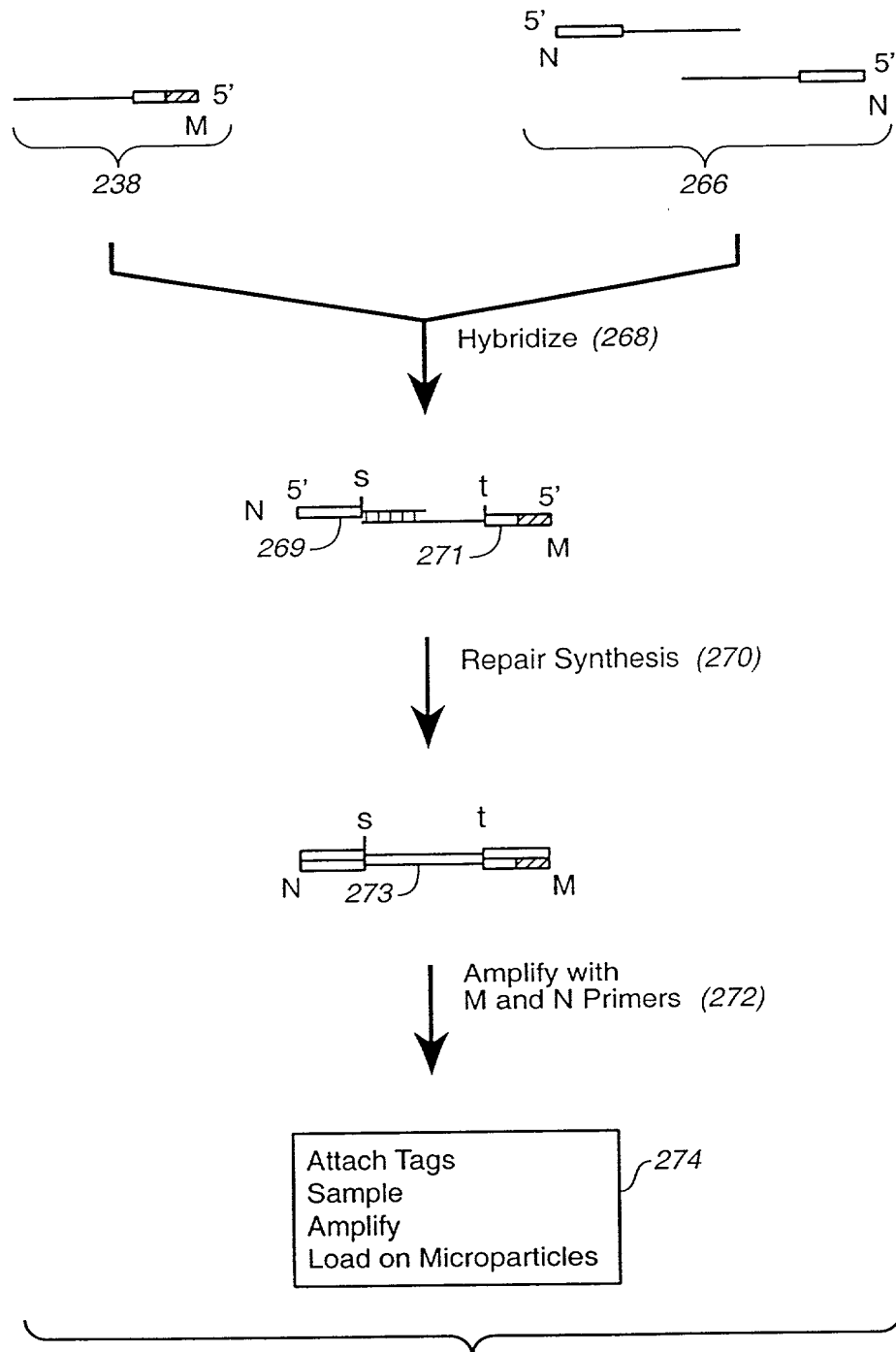


FIG._2D

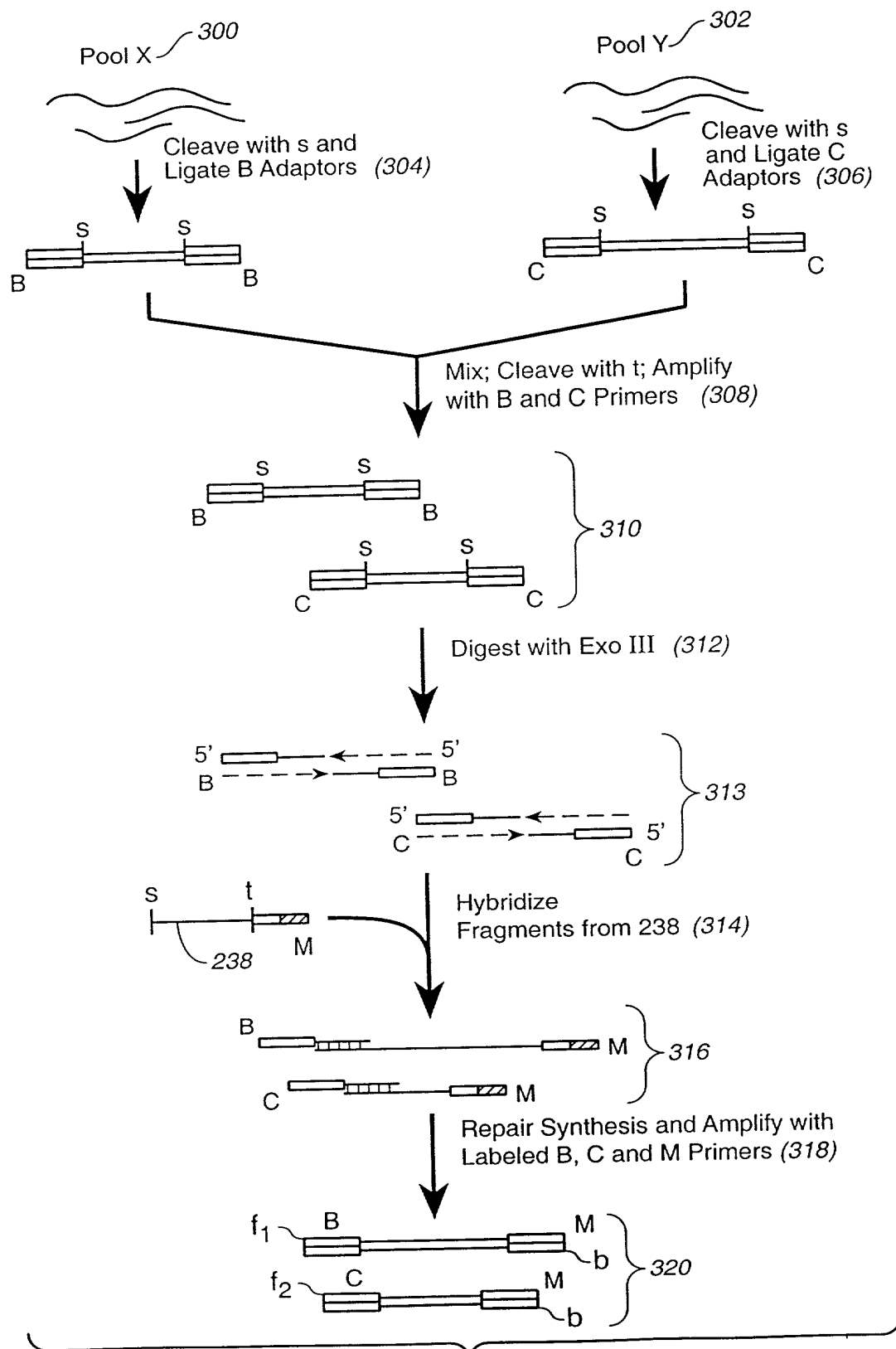


FIG. 3

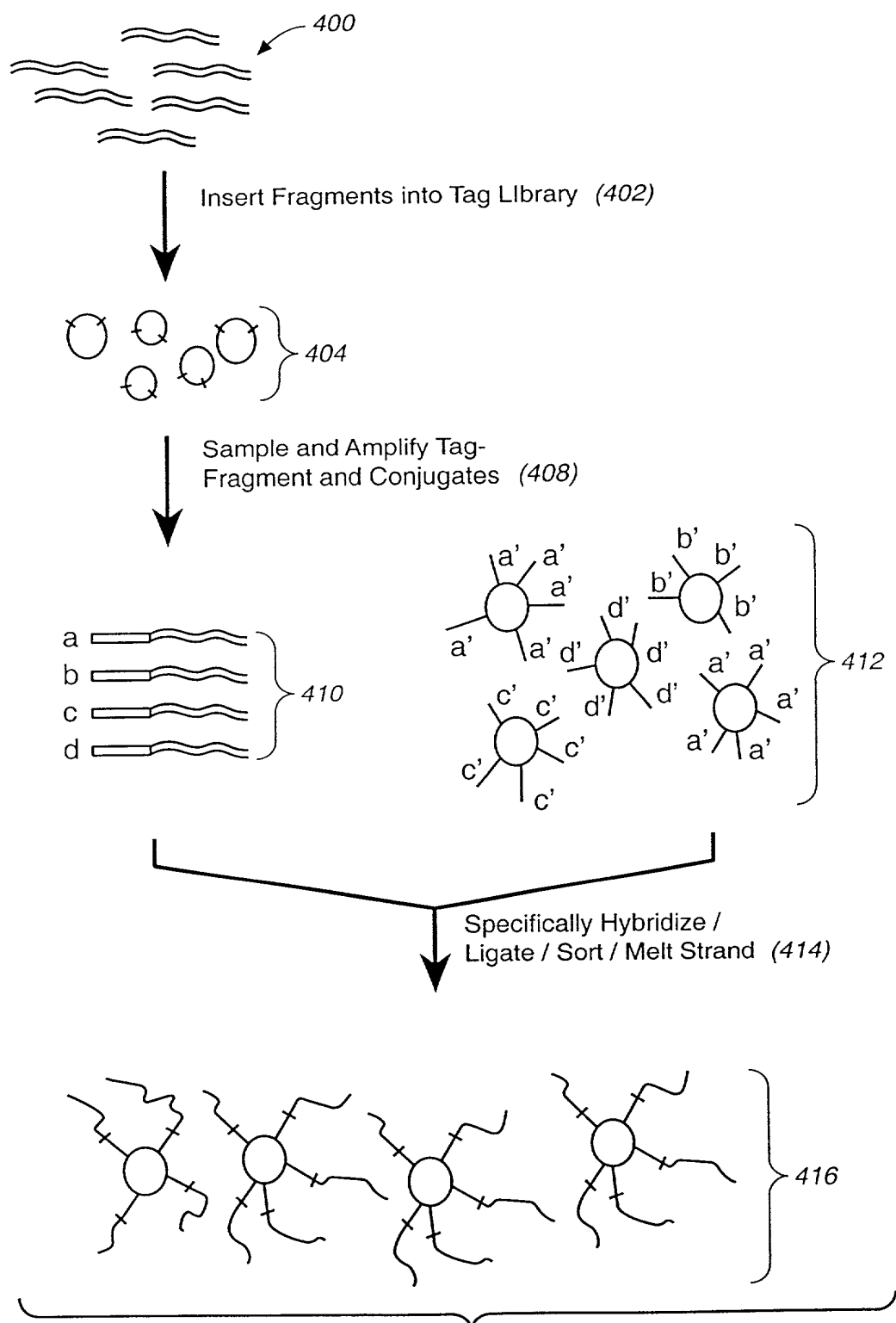
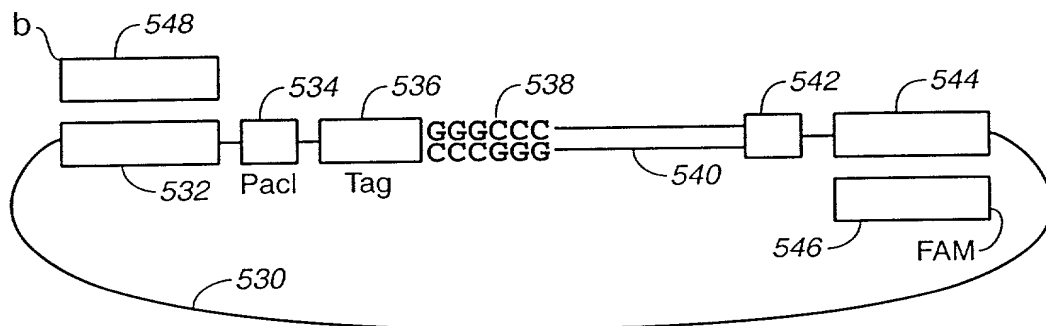
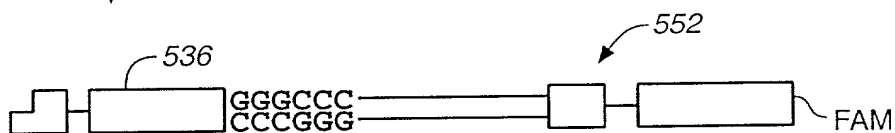


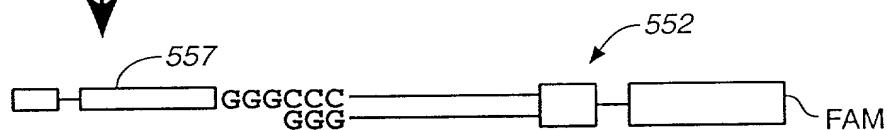
FIG._4



Amplify in Presence of 5-Me-CTP
Isolate Amplicon by Streptavidin
Capture Cleave with
PacI Isolate FAM - Labeled DNA (556)



"Strip" Tag Sequence



Hybridize to Tag
Complements on
Beads Fill - In Ligate (558)

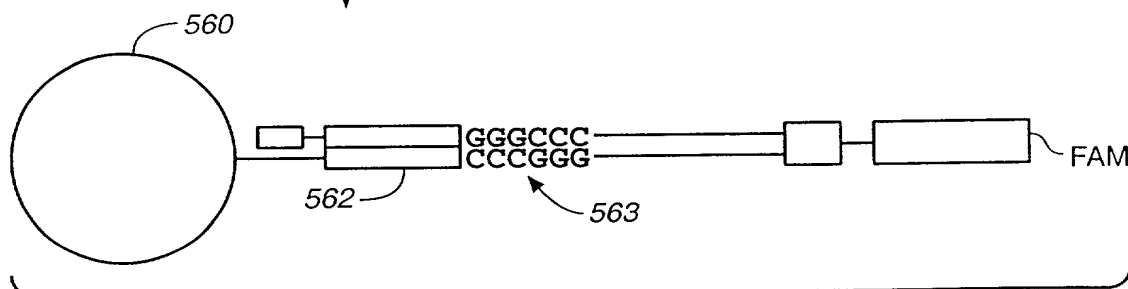


FIG._5A

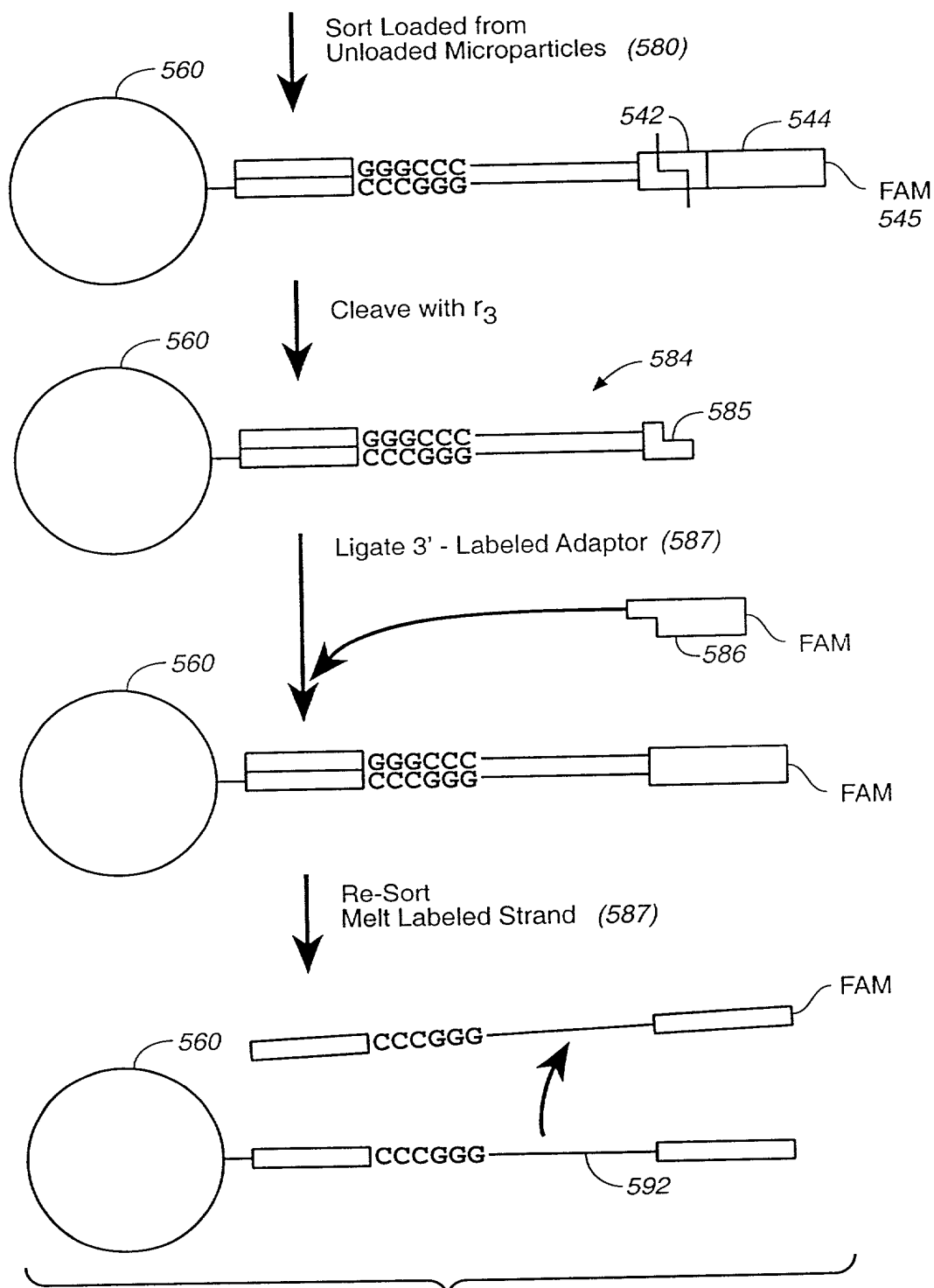


FIG. 5B

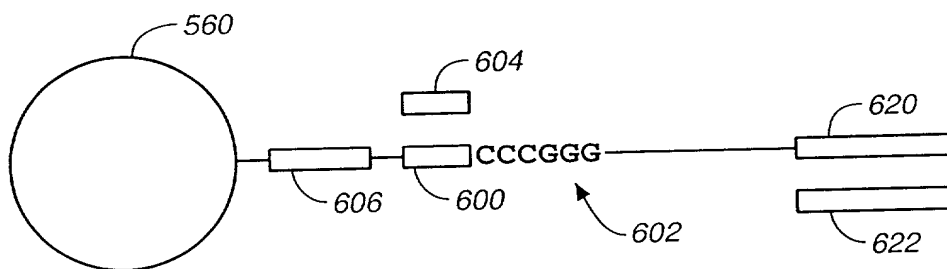


FIG. 6A

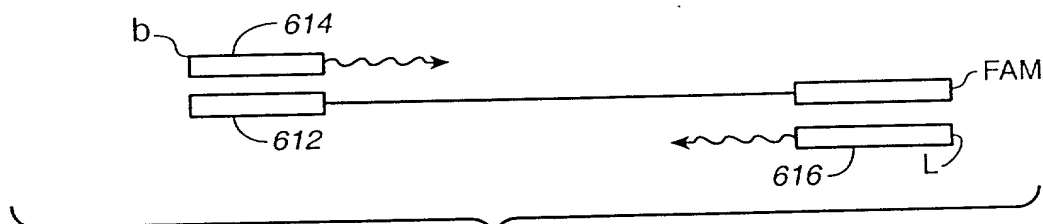
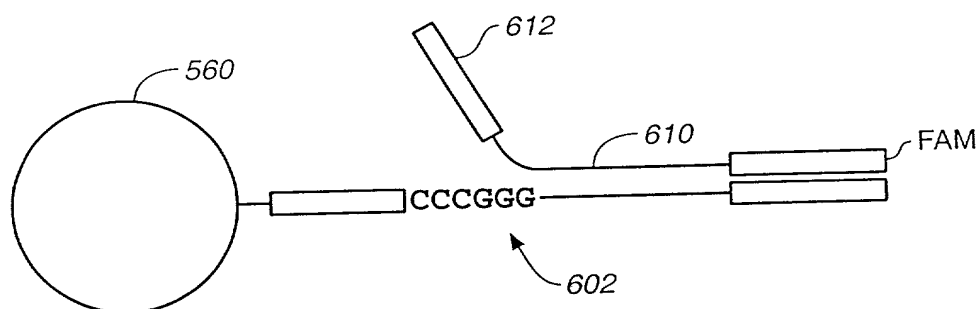


FIG. 6B

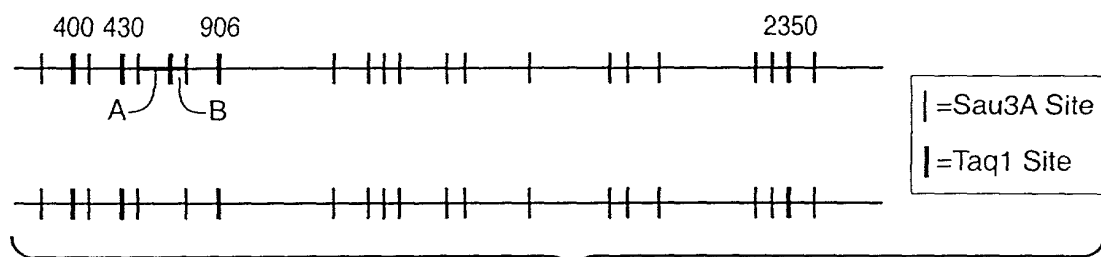
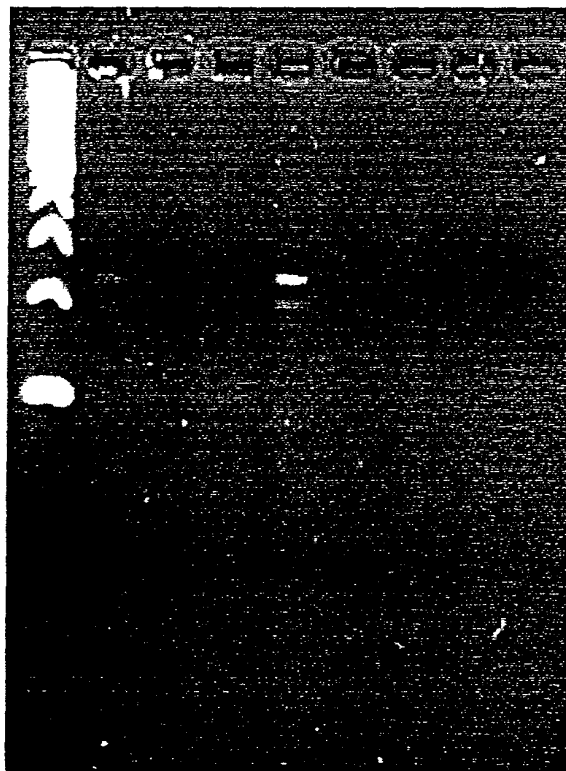


FIG._7A

Lambda + Plasmid			Plasmid		
+/-	+	-	+/-	+	-



Expected Bands: Approx. 190bp
230bp

FIG._7B

Generation of Taq + Fragments

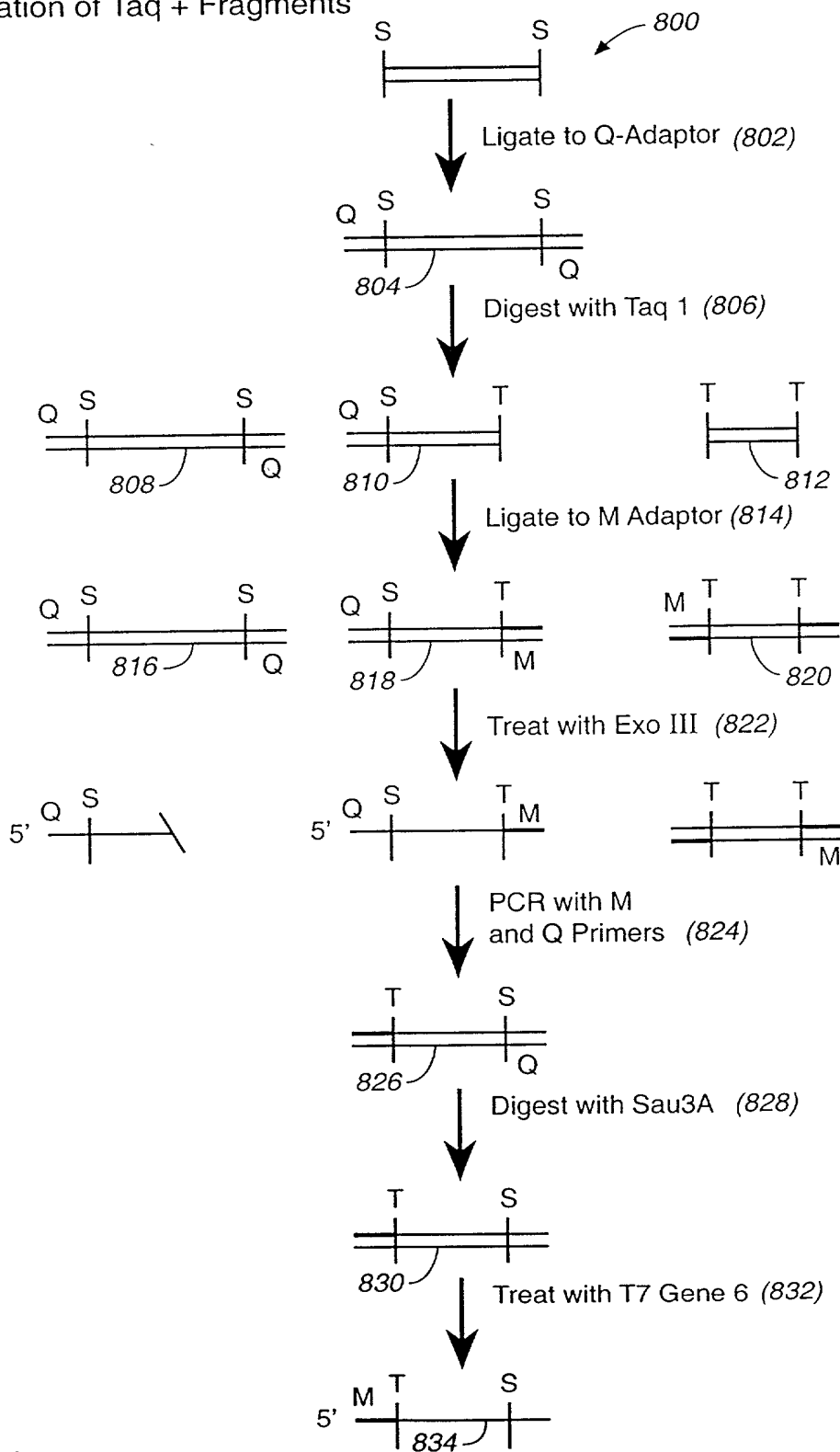


FIG. 8A

Generation of Taq - Fragments

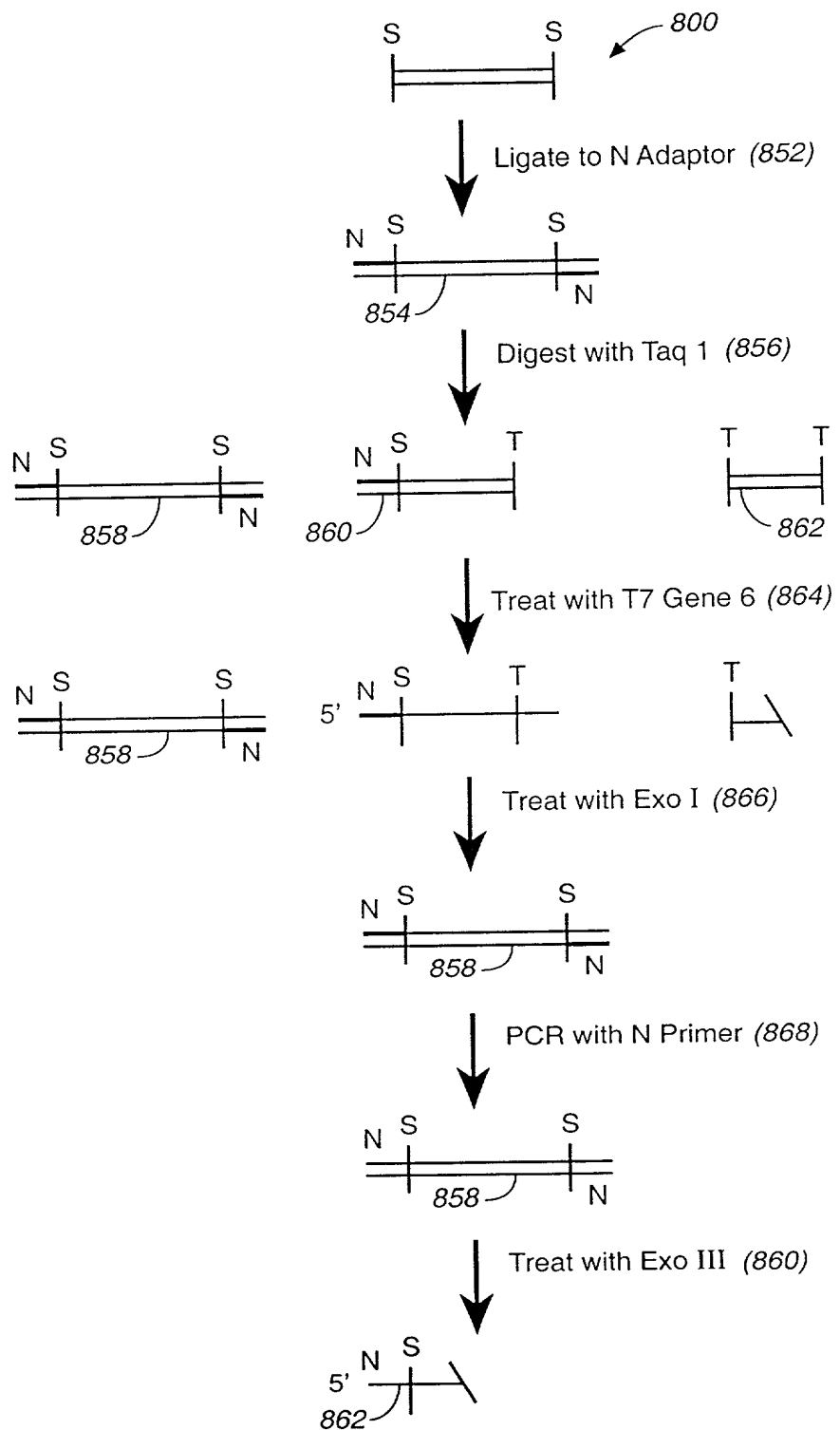
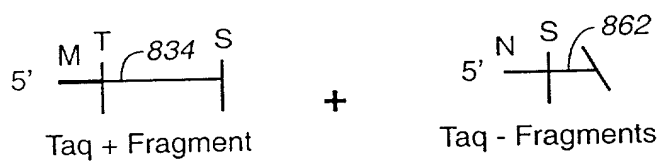
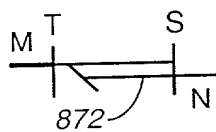


FIG. 8B

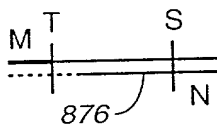
Rescue of Polymorphic Fragments



Anneal (870)



Extend with
T4 Polymerase (874)



PCR with M and N

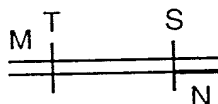


FIG._8C

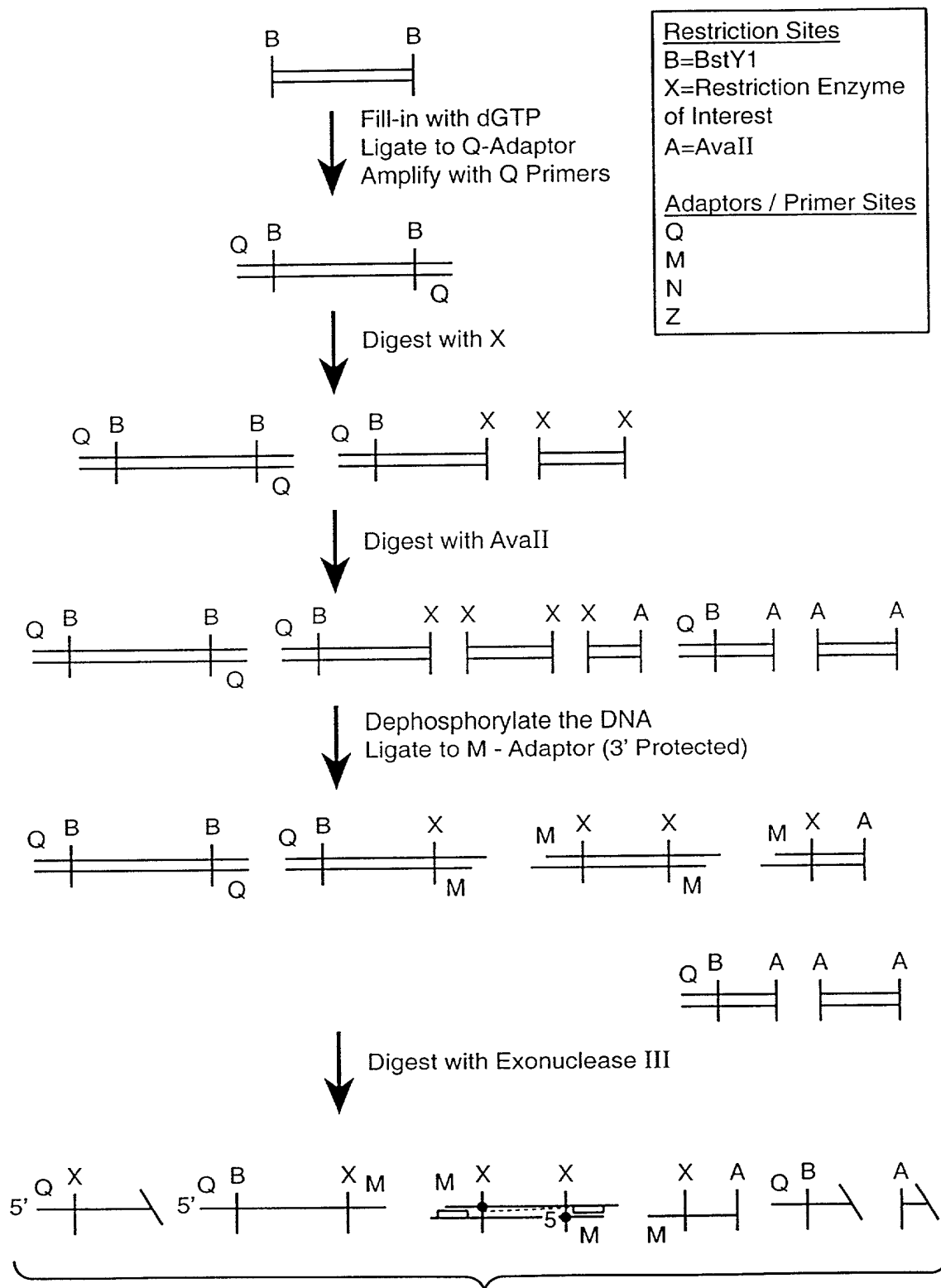
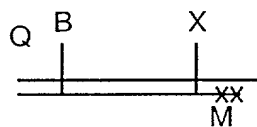
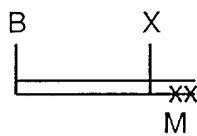


FIG._9A

↓ Amplify with M (5' Protected)
and Q Primers



↓ Digest with BstY 1



↓ Linearize with T7 Gene 6

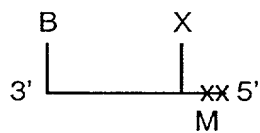
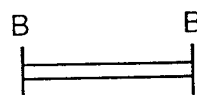
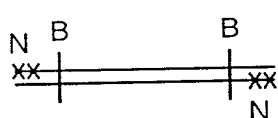


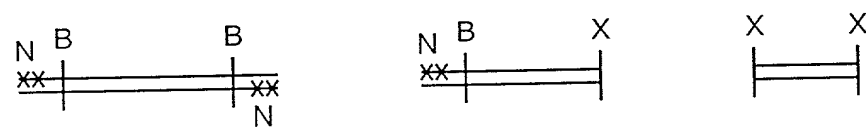
FIG. 9B



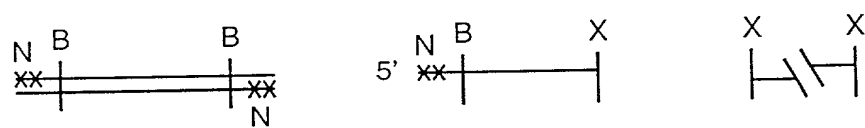
↓
Fill - in with dGTP
Ligate to N - Adaptor
Amplify with N (5' Protected) Primers



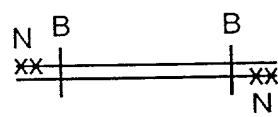
↓
Digest with X



↓
Linearize with T7 Gene 6

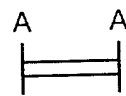
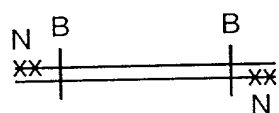


↓
Remove Single - Stranded
DNA with Exonuclease I

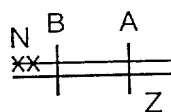
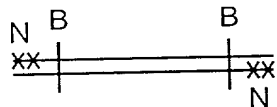


↓
Digest with AvaII

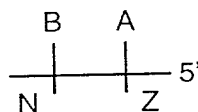
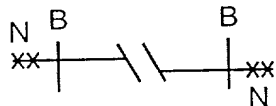
FIG._10A



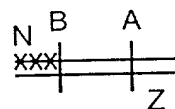
↓
Fill - in with ddGTP
Ligate to Z - Adaptor
(3' Protected)



↓
Linearize with
Exonuclease III



↓
PCR with N
(5' Protected) + Z



↓
T7 Gene 6 Treatment

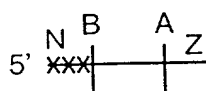


FIG._10B

Hybridization of Tai + and Tai -

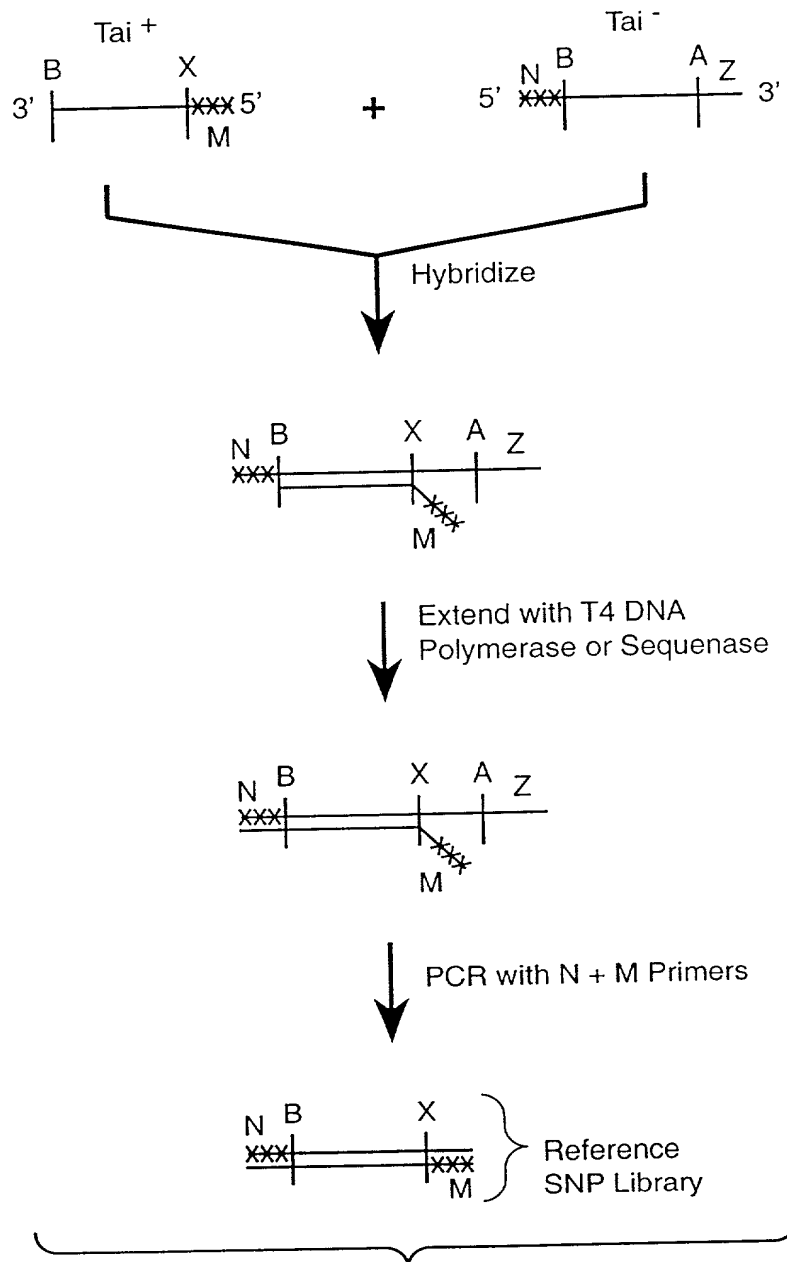


FIG._11

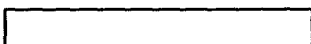

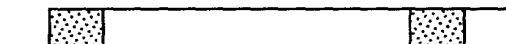
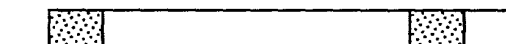






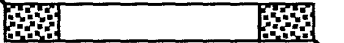

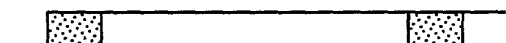
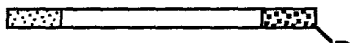

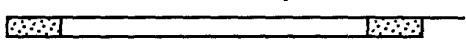


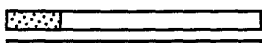
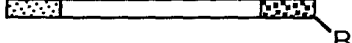

- (1) BstYI or Sau3A digest

- (2) fill-in dGTP
 add  N-adaptor (3' overhang)

- (3) TaqI digest (T⁺CGA)
 dephosphorylation or fill-in dCTP/ddCTP



- (4) add  biotin B-adaptor





- (5) ExoIII digestion



- (6) Denaturization & Hybridization



- (7) ExoI



- (8) T7 Endonuclease treatment
 Biotin precipitation
- (9) BN-PCR

Fig. 12